

Sara Bertagnoli



Ph.D. Student in Cognitive, Social & Affective
Neuroscience Program - La Sapienza University of Rome

Psychologist and Physiotherapist

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PRIVACY (Art.15 of D.lgs. n. 33/2013)

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details

SELF-DECLARATION AFFIDAVIT (Art.47 and art.19 of D.P.R. n. 445/2000)

I, the undersigned, Sara Bertagnoli, aware of the consequences of making false statements, falsehood of acts and the use of false facts, punishable by law according to art. 76 D.P.R. n. 445/2000 and art. 496 of the Italian Penal Code, under my own responsibility declare that the information in this Curriculum Vitae including the information on scientific production, is true.

Verona, March 17th, 2023

Presentation

I started my research activity during my Bachelor's degree in Physiotherapy when my academic interests started to lean towards neurological rehabilitation. My first research experience has focused on the study of lesional correlations between neuropsychological symptoms and the brain injured region, carried out by means of specific lesional techniques. Despite my interest in clinical rehabilitation, I never stopped my research activity and pursued my Bachelor's and Master's degrees in Psychology while working full time and raising my family with two children. I continued to attend NPSY-Lab.VR's seminars and workshops increasing my skills in Lesion Analyses and getting in touch with excellent national and international researchers. I had the opportunity to use advanced lesional techniques in studies on Anosognosia for Hemiplegia, Apraxia and Personal Neglect. Recently, with the aim to expand the analysis from single brain region toward brain networks, I increased my knowledge on the use of specific software for white matter investigation. My future research within the PhD program will focus on the study of neural correlates in the evaluation of empathetic emotional contexts in patients with brain damage.

Current position

November, 2022 –
current
Ph.D. student in Cognitive Social and Affective Neuroscience
Department of Psychology - Sapienza University of Rome

Curriculum studiorum

September, 2018 -
December 3rd,
2020
Master's Degree in Neuroscience and Neuropsychological Rehabilitation (110/110
with honours)
School of Psychology, University of Padova, Padova (Italy)
Thesis: Neuroanatomical correlates of personal and extrapersonal neglect: lesion
analysis and disconnection maps. Supervisor: Prof. Daniela Mapelli

September, 2015 -
July 4th, 2018
Bachelor's Degree in Psychological, Cognitive and Psychobiological Science
(103/110)
School of Psychology, University of Padova, Padova (Italy)
Thesis: Lesion analysis techniques in Neuropsychology. Supervisor: Prof. Daniela
Mapelli

September, 2010 -
November 21st, 2013
Bachelor's Degree in Physiotherapy (109/110)
School of Medicine, University of Verona, Verona (Italy)
Thesis: Anosognosia for hemiplegia: clinical assessment and lesional analyses useful
to plan a rehabilitation intervention
Supervisor: Prof. Valentina Moro

September, 2004 -
July, 2009
High Science School Diploma
Liceo Scientifico N. Copernico Verona

Training/Professional experience

February 2021 -
January 2022
Postgraduate Internship
Laboratory of Neuropsychology (NPSY-Lab.VR), University of Verona (Italy)
Department of Human Science, University of Verona (Italy)

- Research activity in clinical and experimental neuropsychology (with specific focus on disorders in body representations)
- Literature review by means of qualitative and quantitative methods (with focus on Personal Neglect)
- Participation in seminars, laboratory meetings and Journal Club appointments
- Neuropsychological assessment and rehabilitation in traumatic brain injury, cerebrovascular disease c/o Physic Medicine and Rehabilitation Unit, Don Calabria Hospital, Verona (Italy).

Supervisor: Prof. Michele Scandola

October 2019 -
May 2020
Undergraduate Internship – Master's Degree
Laboratory of Neuropsychology (NPSY-Lab.VR), University of Verona (Italy)
Department of Human Science, University of Verona (Italy)

- Participation in seminars, laboratory meetings and Journal Club appointments
- Research activity in clinical and experimental Neuropsychology.
- Qualitative and quantitative research into literature on Lesion analyses Techniques

Supervisor: Prof. Valentina Moro

February 2018 - *Undergraduate Internship* – Bachelor's Degree
April 2018 Laboratory of Neuropsychology (NPSY-Lab.VR), University of Verona (Italy)
Department of Human Science, University of Verona (Italy)

- Neuropsychological assessment in traumatic brain injury, cerebrovascular disease c/o Physical Medicine and Rehabilitation Unit, Don Calabria Hospital, Verona (Italy).
- Research activity in clinical and experimental Neuropsychology.
- Qualitative and quantitative research into literature on Anosognosia for Hemiplegia

Supervisor: Prof. Valentina Moro

Research activity

Collaboration contracts for research

May 2017 - *Research contract* at University of Verona (Italy) Department of Human Science,
November 2017 University of Verona (Italy) - Laboratory of Neuropsychology (NPSY-Lab.VR)
Supervisor: Prof. Valentina Moro

January 2015 - *Collaboration contract* with Physical Medicine and Rehabilitation Unit, Don
July 2022 Calabria Hospital, Verona (Italy). WHEN: January 2015 – April 2017; November 2018 -
September 2019; June 2020 – January 2021; February 2022 - July 2022.

in 2019 • I participated in the definition of the research agreement between the Centro
Riabilitativo Veronese (CRV) and NPSY.LAB- VR

Training courses for researchers

14-28/01/2020 - “An updating on new methods for lesional studies: Lesymap, analyses of brain
05/02/2020 disconnection- BCB Toolkit (theoretical seminar with hands-on sessions)”, organized by
NPSY.Lab-VR. Teacher: Valentina Pacella - University of Verona, Verona, Italy

February 2018 “Neuroanatomy (theoretical seminar with hands-on sessions)”, organized by NPSY-Lab-
VR. Teachers: Valentina Pacella and **Sara Bertagnoli** - University of Verona, Verona,
Italy

February - “Lesion analysis and brain volume: The MRICRON software” organized by
May 2014 NPSY.Lab-VR. Teacher: Simone Pernigo - University of Verona, Verona, Italy

Summer School Attended

31/05/2021 - “2nd Bayesian Statistical Analyses for the Human, social and cognitive sciences”,
05/06/2021 University of Verona, Verona, Italy organized by NPSY-Lab.VR (Directors: M.
Scandola and V. Moro)

Work experiences

March 2015 - Physiotherapist

May 2022

Evaluation and treatment of acute and post-acute patients with acquired brain injury and focal lesions, patients with neurodegenerative diseases and general deficits in ADLs or patients with outcomes from orthopedic and neurosurgery.

Centro Riabilitativo Veronese. Piazzale R. Lambranzi, 1 – 37142 Marzana, Verona

May 2014 -
December 2014

Physiotherapist

Rehabilitation work in the Stroke Unit with acute and post-acute patients

Sacro Cuore Hospital, Negrar, Verona– Via don A. Sempreboni, 5 - 37024 Negrar (VR, Italy)

Personal Skills

Native speaker

Italian

Foreign Languages

English

Spanish

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken Interaction	Spoken Production	
B2	B2	B2	B2	B2
B1	A2	A2	A2	A2

Digital skills

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem Solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Laboratory experience and skills

- Independent in neuropsychological assessment and good knowledge of psychometrics tests and neuropsychological batteries
- Independent in brain lesion drawings and neuroimaging reading
- Basic knowledge of psychophysiological recordings (EEG, EMG, ECG, EDA, respiratory activity)
- Basic knowledge of R and Matlab
- Average knowledge of Lesymap and Trackvis
- Expert knowledge of MRICron and BCB-Toolkit software
- Expert knowledge of the Microsoft Office Package
- Expert knowledge of Pubmed, ScienceDirect and Google Scholar research engines
- Independent in PRISMA systematic review of literature

Publications

1. **Bertagnoli, S.**, Pacella, V., Rossato, E., Jenkinson, P. M., Fotopoulou, A., Scandola, M., & Moro, V. (2022). Disconnections in personal neglect. *Brain structure & function*, 10.1007/s00429-022-02511-z. Advance online publication. <https://doi.org/10.1007/s00429-022-02511-z>
2. Scandola, M., Gobetto, V., **Bertagnoli, S.**, Bulgarelli, C., Canzano, L., Aglioti, S. M., & Moro, V. (2021). Gesture errors in left and right hemisphere damaged patients: A behavioural and anatomical study. *Neuropsychologia*, 162, 108027. <https://doi.org/10.1016/j.neuropsychologia.2021.108027>
3. Scandola, M., Canzano, L., Avesani, R., Leder, M., **Bertagnoli, S.**, Gobetto, V., Aglioti, S. M., & Moro, V. (2021). Anosognosia for limb and bucco-facial apraxia as inferred from the recognition of gestural errors. *Journal of neuropsychology*, 15(1), 20–45. <https://doi.org/10.1111/jnp.12203>
4. Moro, V., Besharati, S., Scandola, M., **Bertagnoli, S.**, Gobetto, V., Ponzo, S., Bulgarelli, C., Fotopoulou, A., & Jenkinson, P. M. (2021). The Motor Unawareness Assessment (MUNA): A new tool for the assessment of Anosognosia for hemiplegia. *Journal of clinical and experimental neuropsychology*, 43(1), 91–104. <https://doi.org/10.1080/13803395.2021.1876842>

5. Kirsch, L. P., Besharati, S., Papadaki, C., Crucianelli, L., **Bertagnoli, S.**, Ward, N., Moro, V., Jenkinson, P. M., & Fotopoulou, A. (2020). Damage to the right insula disrupts the perception of affective touch. *elife*, 9, e47895. <https://doi.org/10.7554/eLife.47895>
6. Pacella, V., Foulon, C., Jenkinson, P. M., Scandola, M., **Bertagnoli, S.**, Avesani, R., Fotopoulou, A., Moro, V., & Thiebaut de Schotten, M. (2019). Anosognosia for hemiplegia as a tripartite disconnection syndrome. *Elife*, 8, e46075. <https://doi.org/10.7554/eLife.46075>
7. D'Imperio, D., Bulgarelli, C., **Bertagnoli, S.**, Avesani, R., & Moro, V. (2017). Modulating anosognosia for hemiplegia: The role of dangerous actions in emergent awareness. *Cortex*; 92, 187–203. <https://doi.org/10.1016/j.cortex.2017.04.009>

Posters Scandola, M; Bertagnoli, S; Pacella, V; Rossato, E; Jenkinson, PM; Fotopoulou, A; Moro, V. - *White matter disconnections and grey matter lesions in Personal Neglect*. OHBM Glasgow, Scotland (UK). June 7th- 8th, 2022

Pacella, V; Foulon, C; Bertagnoli, S; Jenkinson, PM; Avesani, R; Fotopoulou, A; Moro, V; Thiebaut De Schotten, M. *Anosognosia for Hemiplegia as tripartite disconnection syndrome*. 25th meeting of the Organization for Human Brain mapping in Rome, Italy. June 9th-13rd, 2019

Pacella, V; Foulon, C; Bertagnoli, S; Jenkinson, PM; Avesani, R; Fotopoulou, A; Moro, V; Thiebaut De Schotten, M. - *Neural Correlates of Anosognosia for Hemiplegia: A White Matter Disconnection Study*. Body Representation Network Workshop in Edinburgh, Scotland (UK). June 29th, 2018

Gobbetto, V; Bertagnoli, S; Scandola, M; Bulgarelli, C; Piccoli, S; Canzano, L Moro, V. *La qualità dell'errore aprassico: pazienti aprassici e non aprassici a confronto*. Congresso annuale SINP 2016 in Milan, Italy. December 2nd-3rd, 2016

Talks “The neglected personal neglect”, University of Verona, Verona, Italy. May, 29th 2021

“Using machine learning-based lesion behavior mapping to identify anatomical networks of cognitive dysfunction: spatial neglect and attention”, University of Verona, Italy. February, 15th 2021

Awards

[2023](#) *Top Cited Article 2021-2022* - Congratulations to Sara Bertagnoli whose paper has been recognized as a top cited paper in : Journal of Neuropsychology - Anosognosia for limb and bucco-facial apraxia as inferred from the recognition of gestural errors

[2013](#) *Veneto Best thesis of the year award* (second place, for the University of Verona). Venezia Mestre, Italy. February, 28th 2015

Student supervisor experience

[2020-2021](#) Thesis “Il neglect personale: una revisione sistematica della letteratura”. Student: Federico Tollardo. University of Verona - Supervisor: Prof. Valentina Moro and **Sara Bertagnoli**

[2013-2014](#) Thesis “Anosognosia per emiplegia: una valutazione finalizzata alla riabilitazione”. Student: Maria Brighenti. University of Verona - Supervisor: Prof. Valentina Moro and **Sara Bertagnoli**